administering to the individual a pharmaceutical composition comprising an effective pathogen inactivating amount of a copolymer of maleic acid and styrenesulfonic acid, or a salt thereof, and a pharmaceutically acceptable carrier or diluent therefor.



5

- 2. The method accompling to claim 1, wherein the effective pathogen inactivating amount of the inhibitor compound is from 0.5 mg/to 5 g per dose.
- 3. The method according to claim 1, wherein the pharmaceutical composition is administered topically.
- 4. A method for inactivating pathogens in an individual in need thereof, said method comprising:

administering to the individual a pharmaceutical composition comprising an effective pathogen inactivating amount of polyvinyl phthalate sulphate, or a salt thereof, and a pharmaceutically acceptable carrier or diluent therefor.



- 5. The method according to claim 4, wherein the polyvinyl phthalate sulphate is a mixed ester comprising phthalate and sulphate functional groups on a polyvinyl backbone.
- 6. The method according to claim 4, wherein the effective pathogen inactivating amount is 0.5 mg to 5 g per dose.

8. A method for preventing transmission or infection of sexually transmitted diseases in an individual in need thereof, said method comprising:

administering a pharmaceutical composition to a portion or part of the body of said individual that is involved in a sexual activity or a sexual contact, said administration being prior to said sexual activity or sexual contact, or immediately thereafter, said pharmaceutical composition comprising an effective amount of a copolymer of maleic acid and styrenesulfonic acid, or a salt thereof, and a pharmaceutically acceptable carrier or diluent therefor; and

wherein said sexually transmitted disease is caused by, or is chlamydia trachomatis, herpes simplex virus, syphilis, gonorrhea or papilloma virus.

9. A method for preventing transmission or infection of sexually transmitted diseases in an individual in need thereof, said method comprising:

administering a pharmaceutical composition to a portion or part of an individual's body that is involved in a sexual activity or a sexual contact, said administration being prior to said sexual activity or sexual contact, or immediately thereafter, said pharmaceutical composition comprising an effective amount of a copolymer of maleic acid and styrenesulfonic acid, or a salt thereof, and a pharmaceutically acceptable carrier or diluent therefor; and

wherein said sexually transmitted disease is caused by human immunodeficiency virus (HIV).

k.a

5

10

5

5

- 11. The method according to claim 8 or 9, wherein the pharmaceutical composition is administered topically.
- 12. A method for preventing transmission or infection of sexually transmitted diseases in an individual in need thereof, said method comprising:

administering a pharmaceutical composition to a portion or part of an individual's body that is involved in a sexual activity or a sexual contact, said administration being prior to said sexual activity or sexual contact, or immediately thereafter, said pharmaceutical composition comprising an effective amount of a polyvinyl phthalate sulphate, or a salt thereof, and a pharmaceutically acceptable carrier or diluent therefor; and

wherein said sexually transmitted disease is caused by or is chlamydia trachomatis, herpes simplex virus, syphilis, gonorrhea or papilloma virus.

13. A method for preventing transmission or infection of sexually transmitted diseases in an individual in need thereof, said method comprising:

administering a pharmaceutical composition to a portion or part of an individual's body that is involved in a sexual activity or a sexual contact, said administration being prior to said sexual activity or sexual contact, or immediately thereafter, said pharmaceutical composition comprising an effective amount of a polyvinyl phthalate sulphate, or a salt thereof, and a pharmaceutically

acceptable carrier or diluent therefor; and

j-4

5

10

10



- 14. The method according to claim 12 or 13, wherein the effective amount is 0.5 mg to 5 g per dose.
- 15. The method according to claim 12 or 13, wherein the pharmaceutical composition is administered topically.
- 16. A method for treating and preventing bacterial vaginitis in a female individual in need thereof, said method comprising

administering to the vaginal area of said female individual, a pharmaceutical composition comprising an effective amount of a copolymer of maleic acid and styrenesulfonic acid, or a salt thereof, and a pharmaceutically acceptable carrier or diluent therefor.

- 17. The method according to claim 16, wherein the effective amount is 0.5 mg to 5 g per dose.
- 18. A method for treating and preventing bacterial vaginitis in a female individual in need thereof, said method comprising

administering to the vaginal area of said female individual, a pharmaceutical composition comprising an effective amount of a polyvinyl phthalate sulphate, or a salt thereof, and a pharmaceutically acceptable carrier or diluent therefor.

19. The method according to claim 18, wherein the effective amount is 0.5 mg to 5 g per dose.

that the first first for the first f

5

20. A method for preventing pregnancy in a female individual in need thereof, said method comprising

area of said female administering to the vaginal composition comprising individual a pharmaceutical of maleic effective amount οf a copolymer acid s**#**lt styrenesulfonic acid, or a thereof, pharmaceutically acceptable carrier or diluent therefor.

21. A method for preventing pregnancy in a female individual in need thereof, said method comprising

administering to the vaginal area of said female individual a pharmaceutical composition comprising an effective amount of a polyvinyl phthalate sulphate, or a salt thereof, and a pharmaceutically acceptable carrier or diluent therefor.

-4

Ħ

H N/ D

<u>L</u>.

- 22. The method according claim 20 or 21, wherein the effective amount is 0.5 mg to 5 g per dose.
- 23. The method according to claim 20 or 21, wherein the effective amount is administered to the vaginal area of said female individual prior to vaginal intercourse or immediately thereafter.
- 24. A polyvinyl phthalate sulphate polymer, or a salt thereof.
- 29. A polyvinyl phthalate sulphate polymer, or a salt thereof, wherein said polymer or salt thereof is a mixed ester comprising phthalate and sulphate functional groups on a polyvinyl backbone.